| Ref<br># | Hits | Search Query  | DBs   | Default<br>Operator | Plurals | Time Stamp       |
|----------|------|---|---|---------------------|---------|------------------|
| S94      | 0    | 345/619.ccls. and (parametric same texture same viewpoint)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR                  | OFF     | 2005/06/23 12:03 |
| S92      | 1    | 345/619.ccls. and (PTM or (parametric near7 map\$3))        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR                  | OFF     | 2005/06/23 12:03 |
| S91      | 4    | 345/619.ccls. and (parametric near7 (select\$3 or chos\$3)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR                  | OFF     | 2005/06/23 12:03 |
| L16      | 0    | 345/619.ccls. and (parametric same texture same viewpoint)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR                  | OFF     | 2005/06/23 12:03 |
| L15      | 1    | 345/619.ccls. and (PTM or (parametric near7 map\$3))        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR                  | OFF     | 2005/06/23 12:03 |
| L14      | 4    | 345/619.ccls. and (parametric near7 (select\$3 or chos\$3)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR                  | OFF     | 2005/06/23 12:03 |
| L13      | 0    | 345/587.ccls. and (parametric near7 (select\$3 or chos\$3)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR                  | OFF     | 2005/06/23 12:02 |
| L12      | 1    | 345/586.ccls. and (parametric near7 (select\$3 or chos\$3)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR                  | OFF     | 2005/06/23 12:02 |
| L11      | 19   | (L7 or L8) and parametric                                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR                  | OFF     | 2005/06/23 12:02 |

| L10 | 1   | 345/585.ccls. and (parametric near7 (select\$3 or chos\$3))                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/23 12:02 |
|-----|-----|---|---|----|-----|------------------|
| L9  | 8   | 345/423.ccls. and (parametric near7 (select\$3 or chos\$3))                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/23 12:02 |
| L5  | 3   | 382/285.ccls. and ((curve or curvature) near7 map\$3)                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/23 12:02 |
| S77 | 8   | 345/423.ccls. and (parametric near7 (select\$3 or chos\$3))                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/23 12:01 |
| S69 | 63  | 345/646.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/23 12:00 |
| S63 | 7   | ((texture) same (curv\$5 or parametric)) and (distance same viewpoint same angle) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/23 12:00 |
| S56 | 2   | 382/285.ccls. and ((curve or curvature) near7 map\$3)                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/23 12:00 |
| S55 | . 1 | 382/285.ccls. and (PTM or (parametric near7 map\$3))                              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/23 12:00 |
| L8  | 82  | 345/647.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/23 12:00 |
| L7  | 67  | 345/646.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/23 12:00 |

| L6       | 8   | ((texture) same (curv\$5 or<br>parametric)) and (distance same<br>viewpoint same angle) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR   | OFF      | 2005/06/23 12:00 |
|----------|-----|---|---|------|----------|------------------|
| L4       | 1   | 382/285.ccls. and (PTM or (parametric near7 map\$3))                                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR   | OFF<br>· | 2005/06/23 12:00 |
| L3       | 0   | 382/285.ccls. and ((select\$3 near5 map\$3) same (curv\$3 or parametric))               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR   | OFF      | 2005/06/23 12:00 |
| S54      | 0   | 382/285.ccls. and ((select\$3 near5 map\$3) same (curv\$3 or parametric))               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR   | OFF      | 2005/06/23 11:59 |
| S53      | 175 | 382/285.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR   | OFF      | 2005/06/23 11:59 |
| S51      | 78  | 345/639.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR   | OFF      | 2005/06/23 11:59 |
| L2       | 190 | 382/285.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR   | OFF      | 2005/06/23 11:59 |
| L1       | 84  | 345/639.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR   | OFF      | 2005/06/23 11:59 |
| S13<br>5 | 14  | ((select\$3 or choos\$3) near5<br>(texture adj map)) same (type)                        | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR   | OFF      | 2005/06/23 08:44 |
| S11<br>1 | 37  | (parametric adj texture adj<br>map\$3)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR · | OFF      | 2005/06/23 08:43 |

|          | _  |   |   |    |     |                  |
|----------|----|---|---|----|-----|------------------|
| S13<br>4 | 11 | "6515674"pn.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/22 15:55 |
| S13<br>3 |    | "6515674".ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/22 15:55 |
| S97      | 2  | "20020060679"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/22 15:55 |
| S13<br>2 | 72 | 345/586.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/22 15:46 |
| S13<br>1 | 99 | 345/587.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/22 15:46 |
| S40      | 62 | 345/586.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/22 15:46 |
| S39      | 86 | 345/587.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/22 15:46 |
| S13<br>0 | 0  | 345/552.ccls. and ((LOD or "level<br>of detail" or "level-of-detail") same<br>(parametric)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/22 15:19 |
| S12<br>9 | 0  | 345/587.ccls. and ((LOD or "level<br>of detail" or "level-of-detail") same<br>(parametric)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/22 15:19 |
| S12<br>7 | 3  | 345/552.ccls. and (curv\$3 near5 map\$3)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/22 15:19 |

| S12<br>6 | 1   | 345/552.ccls. and (PTM or (parametric near7 map\$3))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF   | 2005/06/22 15:19 |
|----------|-----|---|---|----|-------|------------------|
| S49      | 0   | 345/587.ccls. and ((LOD or "level<br>of detail" or "level-of-detail") same<br>(parametric)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF   | 2005/06/22 15:19 |
| S48      | 0   | 345/552.ccls. and ((LOD or "level of detail" or "level-of-detail") same (parametric))       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF   | 2005/06/22 15:19 |
| S47      | 3   | 345/552.ccls. and (curv\$3 near5 map\$3)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF   | 2005/06/22 15:19 |
| S46      | 1   | 345/552.ccls. and (PTM or (parametric near7 map\$3))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF   | 2005/06/22 15:19 |
| S12<br>5 | 159 | 345/552.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF   | 2005/06/22 15:18 |
| S12<br>4 | 29  | 345/585.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF   | 2005/06/22 15:18 |
| S45      | 147 | 345/552.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF . | 2005/06/22 15:18 |
| S38      | 28  | 345/585.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF   | 2005/06/22 15:18 |
| S12<br>3 | 47  | S121 and (parametric or polynomial or curv\$5)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF   | 2005/06/22 14:36 |

| S12<br>2 | . 18 | S121 and (parametric)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/22 14:36 |
|----------|------|--|---|----|-----|------------------|
| S12<br>1 | 72   | planar near5 (texture adj map\$4)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/22 14:36 |
| S12<br>0 | 0    | non-polynomial adj texture   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/22 14:35 |
| S11<br>9 | 2    | non-parametric adj texture   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/22 14:35 |
| S11<br>8 | 3    | 345/582.ccls. and (texel near3 curv\$5)                                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/22 14:34 |
| S11<br>7 | 7    | 345/582.ccls. and ((curv\$3 or curvature) same (select\$3 near3 map\$4)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/22 14:33 |
| S37      | 5    | 345/582.ccls. and ((curv\$3 or curvature) same (select\$3 near3 map\$4)) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/22 14:33 |
| S11<br>6 | 45   | 345/582.ccls. and ((curv\$3 or curvature) near7 map\$4)                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/22 14:30 |
| S34      | 36   | 345/582.ccls. and ((curv\$3 or curvature) near7 map\$4)                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/22 14:30 |
| S11<br>5 | 17   | 345/582.ccls. and (PTM)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/22 14:19 |

| S11<br>4 | 0   | 345/582.ccls. and (polynomial adj<br>map\$3)               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/22 14:19 |
|----------|-----|--|---|----|-----|------------------|
| S11<br>3 | 1   | 345/582.ccls. and (parametric adj<br>map\$3)               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/22 14:19 |
| S33      | 12  | 345/582.ccls. and (PTM)                                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/22 14:19 |
| S31      | 15  | 345/582.ccls. and (parametric near5 map\$3)                | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/22 14:19 |
| S11<br>2 | 717 | 345/582.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/22 14:18 |
| S30      | 645 | 345/582.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/22 14:18 |
| S11<br>0 | 18  | (polynomial adj texture adj<br>map\$3)                     | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/22 14:05 |
| S10<br>8 | 40  | (polynomial near3 texture)                                 | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/22 13:59 |
| S10<br>9 | 32  | S108 and (light\$3)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/22 13:44 |
| S10<br>7 | 0   | 345/428.ccls. and (parametric same texture same viewpoint) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/22 13:43 |

| S10<br>6 | 3   | 345/428.ccls. and (parametric same texture same map)       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/22 13:43 |
|----------|-----|--|---|----|-----|------------------|
| S10<br>5 | 6   | 345/428.ccls. and (parametric near7 texture)               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/22 13:43 |
| S10<br>3 | 16  | 345/426.ccls. and (parametric same texture same map)       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/22 13:43 |
| S25      | . 0 | 345/428.ccls. and (parametric same texture same viewpoint) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/22 13:43 |
| S24      | 3   | 345/428.ccls. and (parametric same texture same map)       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/22 13:43 |
| S23      | 6   | 345/428.ccls. and (parametric near7 texture)               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/22 13:43 |
| S10<br>4 | 8   | 345/426.ccls. and (parametric near7 texture)               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/22 13:40 |
| S10<br>2 | 4   | 345/426.ccls. and (parametric same texture same viewpoint) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/22 13:40 |
| S10<br>1 | 9   | 345/426.ccls. and (parametric near7 map)                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/22 13:40 |
| S22      | 15  | 345/426.ccls. and (parametric same texture same map)       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2005/06/22 13:40 |

| S21      | 3   | 345/426.ccls. and (parametric same texture same viewpoint) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR   | OFF   | 2005/06/22 13:40 |
|----------|-----|--|---|------|-------|------------------|
| S19      | 9   | 345/426.ccls. and (parametric near7 map)                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR . | OFF   | 2005/06/22 13:40 |
| S10<br>0 | . 1 | 345/423.ccls. and (parametric same texture same viewpoint) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR . | OFF   | 2005/06/22 13:39 |
| S99      | 6   | 345/423.ccls. and (parametric near5 texture)               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR   | OFF   | 2005/06/22 13:39 |
| S98      | 7   | 345/423.ccls. and (parametric near7 map)                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR   | OFF   | 2005/06/22 13:39 |
| S17      | 1   | 345/423.ccls. and (parametric same texture same viewpoint) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR   | OFF   | 2005/06/22 13:39 |
| S16      | 5   | 345/423.ccls. and (parametric near5 texture)               | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR   | OFF   | 2005/06/22 13:38 |
| S15      | 6   | 345/423.ccls. and (parametric near7 map)                   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR   | OFF   | 2005/06/22 13:38 |
| S95      | 7   | horton-noah.in.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR   | OFF   | 2005/06/22 13:19 |
| S96      | 13  | ritter-bradford-a.in.                                      | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR   | OFF , | 2005/06/22 13:14 |

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|-----|------|---|---|------|-----|------------------|
| S8  | 10   | ritter-bradford-a.in.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR   | OFF | 2005/06/22 13:14 |
| S7  | 4    | horton-noah.in.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR   | OFF | 2005/06/22 13:14 |
| S90 | 6    | S89 and distance  | US-PGPUB;<br>USPAT;<br>DERWENT                        | OR   | OFF | 2004/12/29 15:05 |
| S89 | 12   | (US-20040096120-\$).did. or<br>(US-5446833-\$ or US-5561756-\$<br>or US-6108006-\$ or US-6417860-\$<br>or US-6515674-\$ or US-6525731-\$<br>or US-6583790-\$ or US-6654013-\$<br>or US-6822658-\$).did. or<br>(US-6078332-\$ or US-6163320-\$).<br>did. | US-PGPUB;<br>USPAT;<br>DERWENT                        | OR   | OFF | 2004/12/29 15:05 |
| S88 | 1    | ((select\$3 or chos\$3) adj (texture<br>adj map)) same (luminosity or<br>intensity or lighting)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR   | OFF | 2004/12/29 14:58 |
| S87 | 20   | 345/426.ccls. and (texture same parametric)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR   | OFF | 2004/12/29 14:57 |
| S86 | 17   | S85 and (texture adj map)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR   | OFF | 2004/12/29 14:20 |
| S85 | 2006 | (non adj parametric)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR . | OFF | 2004/12/29 14:11 |
| S83 | 26   | S82 and (curv\$5)   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR   | OFF | 2004/12/29 10:19 |
| S82 | 79   | S81 and surface   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR   | OFF | 2004/12/29 10:19 |

| S81        | 114 | ((select\$3 or chos\$3) adj3<br>(texture adj map))                             | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2004/12/29 10:01 |
|------------|-----|--|---|----|-----|------------------|
| S73        | 0   | ((select\$3 or chos\$3) adj3<br>(texture adj map)) same<br>parametric          | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2004/12/29 10:00 |
| S80        | 0   | 345/587.ccls. and (parametric near7 (select\$3 or chos\$3))                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2004/12/29 09:56 |
| S79        | 1   | 345/586.ccls. and (parametric near7 (select\$3 or chos\$3))                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2004/12/29 09:56 |
| S78        | 1   | 345/585.ccls. and (parametric near7 (select\$3 or chos\$3))                    | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2004/12/29 09:56 |
| S76        | 22  | ((select\$3 or chos\$3) adj3<br>texture) same (curv\$5 or spline)              | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2004/12/29 09:26 |
| <b>S75</b> | 0   | ((select\$3 or chos\$3) adj3<br>texture) same parametric                       | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2004/12/29 09:25 |
| S74        | 0   | ((select\$3 or chos\$3) adj3<br>(texture adj map)) same (curv\$5<br>or spline) | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2004/12/29 09:25 |
| S72        | 7   | S71 and texture  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2004/12/29 09:24 |
| S71        | 19  | (S69 or S70) and parametric  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2004/12/29 09:01 |

| S70 | 72  | 345/647.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2004/12/29 08:46  |
|-----|-----|--|---|----|-----|-------------------|
| S12 | 384 | 345/423.ccls.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2004/12/29 08:46  |
| S67 | 1   | S66 and (viewpoint and angle and (LOD or "level of detail" or "level-of-detail"))  | US-PGPUB;<br>USPAT;<br>DERWENT                        | OR | OFF | 2004/12/21 12:44  |
| S66 | 11  | (US-20040096120-\$).did. or<br>(US-5446833-\$ or US-5561756-\$<br>or US-6108006-\$ or US-6417860-\$<br>or US-6515674-\$ or US-6583790-\$<br>or US-6654013-\$ or<br>US-6822658-\$).did. or<br>(US-6078332-\$ or US-6163320-\$).<br>did. | US-PGPUB;<br>USPAT;<br>DERWENT                        | OR | OFF | 2004/12/21 09:08  |
| S65 | 68  | S64 and (curv\$4 or curvature or arc)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2004/12/21 08:26  |
| S64 | 229 | ((select\$3 or chos\$3) near7<br>(texture adj map))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2004/12/21 08:26  |
| S62 | 14  | ((chos\$3 near5 texture) same<br>(curv\$5 or parametric))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2004/12/21 08:02  |
| S61 | 57  | ((select\$3 near5 texture) same<br>(curv\$5 or parametric))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2004/12/20 14:55  |
| S52 | 7   | ((select\$3 near5 map\$4) near3<br>texture) same (curv\$5 or<br>parametric)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2004/12/20 14:55  |
| S60 | 2   | "6115050".pn.  | US-PGPUB;<br>USPAT;<br>DERWENT                        | OR | OFF | 2004/12/20 14:24. |

| S59 | 8  | S57 and angle  | US-PGPUB;<br>USPAT;<br>DERWENT                        | OR | OFF | 2004/12/20 14:24 |
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| S58 | 5  | S57 and (viewpoint)  | US-PGPUB;<br>USPAT;<br>DERWENT                        | OR | OFF | 2004/12/20 14:20 |
| S57 | 11 | (US-20040096120-\$).did. or<br>(US-5561756-\$ or US-6108006-\$<br>or US-6417860-\$ or US-6515674-\$<br>or US-6583790-\$ or US-6654013-\$<br>or US-5446833-\$ or<br>US-6822658-\$).did. or<br>(US-6078332-\$ or US-6163320-\$).<br>did. | US-PGPUB;<br>USPAT;<br>DERWENT                        | OR | OFF | 2004/12/20 14:18 |
| S50 | 0  | 345/582.ccls. and ((LOD or "level of detail" or "level-of-detail") same (parametric))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2004/12/20 10:38 |
| S44 | 2  | 345/582.ccls. and ((select\$3 near5 map\$3) same (curv\$3 or parametric))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2004/12/20 10:30 |
| S43 | 0  | (S38 or S39 or S40) and ((select\$3 near5 map\$3) same (curv\$3 or parametric))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2004/12/20 10:28 |
| S42 | 3  | (S38 or S39 or S40) and ((curve or curvature) near7 map\$3)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2004/12/20 10:27 |
| S41 | 7  | (S38 or S39 or S40) and (PTM or (parametric near7 map\$3))   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2004/12/20 10:20 |
| S36 | 2  | "09505337"   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2004/12/16 14:46 |
| S32 | 13 | S31 and select\$3  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2004/12/16 14:41 |

| S28 | 43  | S26 and (texture near7 (different or various))  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2004/12/16 14:40 |
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| S29 | 8   | S26 and (texture near7 (different or various)) and parametric   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2004/12/16 13:48 |
| S27 | 98  | S26 and texture   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2004/12/16 13:46 |
| S26 | 156 | (345/423.ccls. or 345/426.ccls or 345/428) and (select\$3 near7 map)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2004/12/16 13:45 |
| S20 | . 8 | 345/426.ccls. and (parametric near7 texture)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2004/12/16 13:38 |
| S18 | 567 | 345/426.ccls.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2004/12/16 12:59 |
| S14 | 0   | 345/423.ccls. and (parametric near7 version)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2004/12/15 14:39 |
| S13 | 93  | 345/423.ccls. and (parametric)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2004/12/15 14:39 |
| S11 | 62  | (parametric near5 texture)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2004/12/15 14:39 |
| S9  | 11  | ("20020024516"   "20020122043"   "20020131641"   "20030026588"   "5561756"   "5872867"   "6018349"   "6515674"   "6556210"   "6583790"   "6593933").PN. | US-PGPUB;<br>USPAT;<br>USOCR                          | OR | OFF | 2004/12/15 13:50 |

| S6 | 2  | "5973701".pn.   | US-PGPUB;<br>USPAT;<br>DERWENT | OR | OFF | 2004/12/15 13:43 |
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| S5 | 2  | "6348917".pn.   | US-PGPUB;<br>USPAT;<br>DERWENT | OR | OFF | 2004/12/15 13:43 |
| S3 | 14 | "6348917.pn." "6163320".pn. "6078332".pn. "5805782".pn. "6169553".pn. "6037949".pn. "5561756".pn. "6288730".pn. "5805782".pn. | US-PGPUB;<br>USPAT;<br>DERWENT | OR | OFF | 2004/12/15 13:42 |
| S4 | 12 | "6417860".pn. "6462747".pn.<br>"6515674".pn. "5943058".pn.<br>"6078332".pn. "6229547".pn.                                     | US-PGPUB;<br>USPAT;<br>DERWENT | OR | OFF | 2004/12/15 10:00 |



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Jump map-based interactive texture synthesis

Steve Zelinka, Michael Garland

October 2004 ACM Transactions on Graphics (TOG), Volume 23 Issue 4

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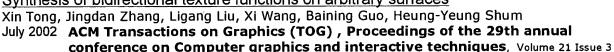
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We present techniques for accelerated texture synthesis from example images. The key idea of our approach is to divide the task into two phases: analysis, and synthesis. During the analysis phase, which is performed once per sample texture, we generate a <i>jump map</i>. Using the jump map, the synthesis phase is capable of synthesizing texture similar to the analyzed example at interactive rates. We describe two such synthesis phase ' algorithms: one for creating images, and one for di ...

**Keywords**: Interactive texture synthesis, jump maps, texturing surfaces

2 Synthesis of bidirectional texture functions on arbitrary surfaces



Full text available: pdf(14.75 MB)

Additional Information: full citation, abstract, references, citings, index terms

The bidirectional texture function (BTF) is a 6D function that can describe textures arising from both spatially-variant surface reflectance and surface mesostructures. In this paper, we present an algorithm for synthesizing the BTF on an arbitrary surface from a sample BTF. A main challenge in surface BTF synthesis is the requirement of a consistent mesostructure on the surface, and to achieve that we must handle the large amount of data in a BTF sample. Our algorithm performs BTF synthesis bas ...

Keywords: 3D textons, bidirectional texture function, reflectance and shading models, surfaces, texture mapping, texture synthesis

3 Texture mapping and synthesis: Towards real-time texture synthesis with the jump map



Steve Zelinka, Michael Garland

July 2002 Proceedings of the 13th Eurographics workshop on Rendering

Full text available: pdf(3.75 MB)

Additional Information: full citation, abstract, references, citings, index terms

While texture synthesis has been well-studied in recent years, real-time techniques remain elusive. To help facilitate real-time texture synthesis, we divide the task of texture synthesis into two phases: a relatively slow analysis phase, and a real-time synthesis phase. Any particular texture need only be analyzed once, and then an unlimited amount of texture may be synthesized in real-time. Our analysis phase generates a jump map, which stores for each input pixel a set of matching input pixel ...

4 <u>Content analysis: A mid-level representation framework for semantic sports video</u> analysis



Ling-Yu Duan, Min Xu, Tat-Seng Chua, Qi Tian, Chang-Sheng Xu November 2003 **Proceedings of the eleventh ACM international conference on Multimedia** 

Full text available: pdf(1.42 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

Sports video has been widely studied due to its tremendous commercial potentials. Despite encouraging results from various specific sports games, it is almost impossible to extend a system for a new sports game because they usually employ different sets of low-level features appropriate for the specific games and closely coupled with the use of game specific rules to detect events or highlights. There is a lack of internal representation and structure to be generic and applicable for many differ ...

**Keywords**: events, mid-level representation, semantics, sports video

5 <u>Modelling for heritage experiences: Composite textures: emulating building materials and vegetation for 3D models</u>



Alexey Zalesny, Dominik Auf der Maur, Luc Van Gool

November 2001 Proceedings of the 2001 conference on Virtual reality, archeology, and cultural heritage

Full text available: pdf(4.67 MB)

Additional Information: full citation, abstract, references, index terms

In building 3D site models for visualization and virtual walkthrough, most emphasis so far has been on creating the 3D shape models. Less emphasis has been on creating realistic textures, e.g. to simulate building materials or vegetation. Nevertheless, the appearance of object and landscape models will depend at least as much on their textures, as on the precision of their geometry. The paper proposes a texture synthesis technique for the simulation of building materials and vegetation types. As ...

**Keywords**: statistical texture modeling, texture analysis, texture synthesis

6 Synthesizing bidirectional texture functions for real-world surfaces

Xinguo Liu, Yizhou Yu, Heung-Yeung Shum



Full text available: pdf(4.30 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u>

In this paper, we present a novel approach to synthetically generating bidirectional texture functions (BTFs) of real-world surfaces. Unlike a conventional two-dimensional texture, a BTF is a six-dimensional function that describes the appearance of texture as a function of illumination and viewing directions. The BTF captures the appearance change caused by visible small-scale geometric details on surfaces. From a sparse set of images under different viewing/lighting settings, our approach g ...

**Keywords**: bidirectional texture functions, image-based rendering, photometric stereo, reflectance and shading models, shape-from-shading, texture synthesis

7 Color gamut matching for tiled display walls

Grant Wallace, Han Chen, Kai Li

May 2003 Proceedings of the workshop on Virtual environments 2003

Full text available: pdf(678.72 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

This paper presents a non-parametric full-gamut color matching algorithm. Color matching

is important for the seamless appearance of tiled displays. In particular we address the case where the tiled display is composed of different types of projectors or DLP projectors with white enhancement. White enhancement produces a non-additive color space that is difficult to model. We perform our calibration using an inexpensive colorimeter as opposed to a highly accurate spectroradiometer. Our results s ...

8 Generating Sub-Resolution Detail in Images and Volumes Using Constrained Texture Synthesis

Lujin Wang, Klaus Mueller

October 2004 Proceedings of the conference on Visualization '04

Full text available: pdf(808.75 KB) Additional Information: full citation, abstract

A common deficiency of discretized datasets is that detail beyond the resolution of the dataset has been irrecoverably lost. This lack of detail becomes immediately apparent once one attempts to zoom into the dataset and only recovers blur. Here, we describe a method that generates the missing detail from any available and plausible high-resolution data, using texture synthesis. Since the detail generation process is guided by the underlying image or volume data and is designed to fill in plausi ...

Keywords: texture synthesis, semantic zoom

Photo & video texture: Feature matching and deformation for texture synthesis
Qing Wu, Yizhou Yu

August 2004 ACM Transactions on Graphics (TOG), Volume 23 Issue 3

Full text available: pdf(448.53 KB) Additional Information: full citation, abstract, references, index terms

One significant problem in patch-based texture synthesis is the presence of broken features at the boundary of adjacent patches. The reason is that optimization schemes for patch merging may fail when neighborhood search cannot find satisfactory candidates in the sample texture because of an inaccurate similarity measure. In this paper, we consider both curvilinear features and their deformation. We develop a novel algorithm to perform feature matching and alignment by measuring structural simil ...

Keywords: Distance Transforms, Image Registration, Oriented Features, Texture Warping

10 <u>Image-based transparency and refraction: Acquisition and rendering of transparent and</u> refractive objects



Wojciech Matusik, Hanspeter Pfister, Remo Ziegler, Addy Ngan, Leonard McMillan July 2002 Proceedings of the 13th Eurographics workshop on Rendering

Full text available: pdf(16.22 MB)

Additional Information: full citation, abstract, references, citings, index terms

This paper introduces a new image-based approach to capturing and modeling highly specular, transparent, or translucent objects. We have built a system for automatically acquiring high quality graphical models of objects that are extremely difficult to scan with traditional 3D scanners. The system consists of turntables, a set of cameras and lights, and monitors to project colored backdrops. We use multi-background matting techniques to acquire alpha and environment mattes of the object from mul ...

11 <u>Textures: Hybrid texture synthesis</u>

Andrew Nealen, Marc Alexa

June 2003 Proceedings of the 14th Eurographics workshop on Rendering

Full text available: pdf(5.64 MB)

Additional Information: full citation, abstract, references, citings, index terms

Patch-based texture synthesis algorithms produce reasonable results for a wide variety of texture classes. They preserve global structure, but often introduce unwanted visual artifacts along patch boundaries. Pixel-based synthesis algorithms, on the other hand, tend to blur out small objects while maintaining a consistent texture impression, which in return

doesn't necessarily resemble the input texture. In this paper, we propose an adaptive and hybrid algorithm. Our algorithm adaptively splits ...

# 12 <u>Special issue on special feature: Feature extraction by non parametric mutual</u> information maximization

Kari Torkkola

March 2003 The Journal of Machine Learning Research, Volume 3

Full text available: pdf(357.19 KB) Additional Information: full citation, abstract, index terms

We present a method for learning discriminative feature transforms using as criterion the mutual information between class labels and transformed features. Instead of a commonly used mutual information measure based on Kullback-Leibler divergence, we use a quadratic divergence measure, which allows us to make an efficient non-parametric implementation and requires no prior assumptions about class densities. In addition to linear transforms, we also discuss nonlinear transforms that are implement ...

#### 13 <u>3D texture: Volumetric illustration: designing 3D models with internal textures</u> Shigeru Owada, Frank Nielsen, Makoto Okabe, Takeo Igarashi August 2004 **ACM Transactions on Graphics (TOG)**, Volume 23 Issue 3

Full text available: pdf(461.67 KB) mov(19:19 MIN)

Additional Information: full citation, abstract, references

This paper presents an interactive system for designing and browsing volumetric illustrations. Volumetric illustrations are 3D models with internal textures that the user can browse by cutting the models at desired locations. To assign internal textures to a surface mesh, the designer cuts the mesh and provides simple guiding information to specify the correspondence between the cross-section and a reference 2D image. The guiding information is stored with the geometry and used during the synthe ...

**Keywords:** Interactive Techniques, Non-Photorealistic Rendering, Texture Synthesis, Volumetric Modeling

# 14 Object-based image editing

William A. Barrett, Alan S. Cheney

July 2002 ACM Transactions on Graphics (TOG), Proceedings of the 29th annual conference on Computer graphics and interactive techniques, Volume 21 Issue 3

Full text available: pdf(18.90 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

We introduce Object-Based Image Editing (OBIE) for real-time animation and manipulation of static digital photographs. Individual image objects (such as an arm or nose, Figure 1) are selected, scaled, stretched, bent, warped or even deleted (with automatic hole filling) - at the object, rather than the pixel level - using simple gesture motions with a mouse. OBIE gives the user direct, local control over object shape, size, and placement while dramatically reducing the time require ...

**Keywords:** animation, image editing, image warping, image-based rendering, texture synthesis

#### 15 Non-photorealistic virtual environments

Allison W. Klein, Wilmot Li, Michael M. Kazhdan, Wagner T. Corrêa, Adam Finkelstein, Thomas A. Funkhouser

July 2000 Proceedings of the 27th annual conference on Computer graphics and interactive techniques

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Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

We describe a system for non-photorealistic rendering (NPR) of virtual environments. In real time, it synthesizes imagery of architectural interiors using stroke-based textures. We address the four main challenges of such a system — interactivity, visual detail, controlled stroke size, and frame-to-frame coherence — through image based rendering (IBR)

methods. In a preprocessing stage, we capture photos of a real or synthetic environment, map the photos to a coarse model of the ...

Keywords: image-based rendering, interactive virtual environments, non-photorealistic rendering, texture mapping

# 16 Photo & video texture: Near-regular texture analysis and manipulation

Yanxi Liu, Wen-Chieh Lin, James Hays

August 2004 ACM Transactions on Graphics (TOG), Volume 23 Issue 3

Full text available: pdf(1.26 MB) Additional Information: full citation, abstract, references mov(22:40 MIN)

A near-regular texture deviates geometrically and photometrically from a regular congruent tiling. Although near-regular textures are ubiquitous in the man-made and natural world, they present computational challenges for state of the art texture analysis and synthesis algorithms. Using regular tiling as our anchor point, and with user-assisted lattice extraction, we can explicitly model the deformation of a near-regular texture with respect to geometry, lighting and color. We treat a deformatio ...

Keywords: deformation field, near-regular texture, texture analysis, texture manipulation, texture replacement, texture synthesis

### <sup>17</sup> Lapped textures

Emil Praun, Adam Finkelstein, Hugues Hoppe

July 2000 Proceedings of the 27th annual conference on Computer graphics and interactive techniques

Full text available: pdf(9.11 MB)

Additional Information: full citation, abstract, references, citings, index terms

We present for creating texture over an surface mesh using an example 2D texture. The approach is to identify interesting regions (texture patches) in the 2D example, and to repeatedly paste them onto the surface until it is completely covered. We call such a collection of overlapping patches a lapped texture. It is rendered using compositing operations, either into a traditional global texture map during a preprocess, or directly with the surface at runtim ...

**Keywords:** parametrizations, texture mapping, texture synthesis

## 18 Applications: Tour into the video: image-based navigation scheme for video sequences of dynamic scenes



Hyung Woo Kang, Sung Yong Shin

November 2002 Proceedings of the ACM symposium on Virtual reality software and technology

Full text available: pdf(4.53 MB) Additional Information: full citation, abstract, references, index terms

Tour Into the Picture (TIP) is a method for generating a sequence of walk-through images from a single reference image. By navigating a 3D scene model constructed from the image, TIP provides convincing 3D effects. This paper presents a comprehensive scheme for creating walk-through images from a video sequence by generalizing the idea of TIP. The purpose of this work is to let users experience the feel of navigating into a video sequence with their own interpretation and imagination about a giv ...

**Keywords**: animation, image-based rendering, video sequence

# 19 Image guilting for texture synthesis and transfer

Alexei A. Efros, William T. Freeman

August 2001 Proceedings of the 28th annual conference on Computer graphics and interactive techniques

Additional Information:

Full text available: pdf(9.04 MB)

 $\underline{\text{full citation, abstract, references, citings, index}}$  terms

We present a simple image-based method of generating novel visual appearance in which a new image is synthesized by stitching together small patches of existing images. We call this process *image quilting*. First, we use quilting as a fast and very simple texture synthesis algorithm which produces surprisingly good results for a wide range of textures. Second, we extend the algorithm to perform texture transfer — rendering an object with a texture taken from a different object. Mo ...

Keywords: image-based rendering, texture mapping, texture synthesis

<sup>20</sup> Image-based 3D photography using opacity hulls

Wojciech Matusik, Hanspeter Pfister, Addy Ngan, Paul Beardsley, Remo Ziegler, Leonard McMillan

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Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

We have built a system for acquiring and displaying high quality graphical models of objects that are impossible to scan with traditional scanners. Our system can acquire highly specular and fuzzy materials, such as fur and feathers. The hardware set-up consists of a turntable, two plasma displays, an array of cameras, and a rotating array of directional lights. We use multi-background matting techniques to acquire alpha mattes of the object from multiple viewpoints. The alpha mattes are used to ...

Keywords: 3D photography, image-based rendering

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